

FILE 'CAPLUS' ENTERED AT 11:02:44 ON 14 MAR 2003

L1 8533 SEA ABB=ON PLU=ON (DRUG OR ACTIVE OR PHARMACEUTICAL) (P)  
(CARRIERS OR DELIVERY) (P) (COMPLEX OR TRANSPORT OR PENETRATION  
OR PENETRANTS OR ABSORPTION)

L2 33 SEA ABB=ON PLU=ON (DRUG OR ACTIVE OR PHARMACEUTICAL) (P)  
(CARRIERS OR DELIVERY) (P) (REVERSIBLE OR INTERMEDIATE) (5A)  
(COMPLEX OR COMPLEXATION OR CONJUGAT? OR TRANSFORM?)  
D L2 IBIB KWIC 1-

L3 56 SEA ABB=ON PLU=ON (DRUG OR ACTIVE AGENT OR PHARMACEUTICAL)  
(P) (CONJUGATE OR CARRIER OR DELIVERY) (P) (REVERSIBLE OR  
INTERMEDIATE) (5A) (COMPLEX OR COMPLEXATION OR CONJUGAT? OR  
TRANSFORM?)

L4 0 SEA ABB=ON PLU=ON L3 AND (SUBCUTANEOUS OR SUBLINGUAL OR  
INTRANASAL)

L5 1 SEA ABB=ON PLU=ON L3 AND (SUBCUTANEOUS OR SUBLINGUAL OR  
INTRANASAL OR NASAL)  
D L5 IBIB KWIC

L6 2 SEA ABB=ON PLU=ON L3 AND (CARRIER OR COMPLEX? AGENT OR  
CONJUGATE OR CONJUGATING AGENT) (P) (CARBOXYLIC ACID OR AMINO  
ACID OR POLYAMINOACID)  
D L6 IBIB KWIC 1-

L7 3 SEA ABB=ON PLU=ON L3 AND (CARBOXYLIC ACID OR AMINO ACID OR  
POLYAMINOACID)  
D L7 IBIB KWIC 1-

L8 5479 SEA ABB=ON PLU=ON (DRUG OR PHARMACEUTICAL) (P) (CARRIER OR  
TRANSPORT? OR CONJUGAT? OR COMPLEX?) (P) (PEPTIDE OR PROTEINOID  
OR AMINO ACID OR POLYAMINO ACID)

L9 15 SEA ABB=ON PLU=ON L8 (P) (REVERSIBLE OR INTERMEDIATE) (5A)  
(COMPLEX? OR CONJUGAT?)  
D L9 IBIB KWIC 1-

L10 81 SEA ABB=ON PLU=ON MILSTEIN-IN

L11 0 SEA ABB=ON PLU=ON MILSTEIN/IN

L12 0 SEA ABB=ON PLU=ON MILSTEIN-SAM/IN

L13 0 SEA ABB=ON PLU=ON MILSTEIN-J/IN  
D L10 1-5  
E MILSTEIN  
E MILSTEIN-J  
E MILSTEIN-J

L14 81 SEA ABB=ON PLU=ON MILSTEIN/BI

L15 0 SEA ABB=ON PLU=ON L14 AND (ACTIVE AGENT)  
E MILSTEIN/IN  
E LEONE-BAY/IN  
E LEIPOLD/IN

L16 0 SEA ABB=ON PLU=ON ACTIVE AGENT TRANSPORT SYSTEM

L17 6 SEA ABB=ON PLU=ON ACTIVE AGENT TRANSPORT  
D L17 IBIB 1-

=> d ibib full  
'FULL' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE  
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BIB ----- AN, plus Bibliographic Data and PI table (default)  
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CBIB ----- AN, plus Compressed Bibliographic Data  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
MAX ----- ALL, plus Patent FAM, RE  
PATS ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)  
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IABS ----- ABS, indented with text labels  
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IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels

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OIBIB ----- OBIB, indented with text labels

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SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms  
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
containing hit terms  
HITRN ----- HIT RN and its text modification  
HITSTR ----- HIT RN, its text modification, its CA index name, and  
its structure diagram  
HITSEQ ----- HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
its structure diagram  
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
KWIC ----- Hit term plus 20 words on either side  
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

LI ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS  
 AN 1987:583493 CAPLUS  
 DN 107:183493  
 TI Application of synthetic liposomes based on **acyl** amino acids or **acyl peptides** as **drug carriers**. I.  
 Their preparation and transport of glutathione into the liver  
 AU Kiwada, Hiroshi; Akimoto, Masami; Araki, Michiyo; Tsuji, Mitsuko; Kato, Yuriko  
 CS Fac. Pharm. Sci., Sci. Univ. Tokyo, Tokyo, 162, Japan  
 SO Chem. Pharm. Bull. (1987), 35(7), 2935-42  
 CODEN: CPBTAL; ISSN: 0009-2363  
 DT Journal  
 LA English  
 CC 63-6 (Pharmaceuticals)  
 Section cross-reference(s): 1, 34  
 AB Palmitoyl amino acids and palmitoyl glutathione were synthesized. Liposome-like vesicles based on these compds. were prepd. and their barrier functions were examd. These vesicles showed encapsulation efficiencys for aq. solute comparable to that of conventional phosphatidylcholine liposomes (PC-liposomes). They were also stable in fresh rat plasma at 37.degree.. The biol. behavior (blood clearance, urinary excretion and tissue distribution) of the vesicles based on palmitoyl serine (PSer-liposomes) or palmitoyl glutathione (PGSH-liposomes) was examd. after i.v. injection in rats. The synthetic liposomes were cleared very rapidly from the blood compared with PC-liposomes. PSer-liposomes showed a large amt. of urinary excretion of aq. marker ([3H]inulin), suggesting that the mechanisms of vesicle degrdn. in vivo and in vitro are different. These synthetic liposomes showed low affinity to the spleen and high affinity to the liver in the tissue distribution study, and thus they may be expected to be a useful drug carrier which is targetable to the liver. A suppressing effect of PGSH-liposomes on the increase of plasma glutamate oxaloacetate transaminase (GOT) induced by a high dose of acetaminophen in mice was obsd., and transport of glutathione into the liver cells apparently occurred. The suppressing effect was greater than that of free glutathione or PC-liposomes contg. free glutathione. However, the effect was not obsd. in the case of PGSH-liposomes without phosphatidylcholine, which appears to have an important role in the liposome-cell interaction.  
 ST acyl amino acid peptide liposome; glutathione delivery liver liposome  
 IT Liver, metabolism  
 (palmitoyl amino acid or palmitoyl glutathione liposomes uptake by, glutathione delivery in relation to)  
 IT Phosphatidylcholines, biological studies  
 RL: BIOL (Biological study)  
 (palmitoyl glutathione liposomes contg., glutathione delivery to liver by)  
 IT Amino acids, reactions  
 RL: RCT (Reactant)  
 (reaction of, with palmitic acid hydroxysuccinimide ester)  
 IT Pharmaceutical dosage forms  
 (liposomes, palmitoyl amino acids- or palmitoyl glutathione-contg., for glutathione delivery to liver)  
 IT 70-18-8, biological studies  
 RL: BIOL (Biological study)  
 (delivery of, to liver, liposomes contg. palmitoyl amino acids or palmitoyl glutathione for)  
 IT 2441-41-0, N-Palmitoyl glycine 16417-38-2 17627-10-0 20257-67-4  
 38079-66-2 110995-58-9  
 RL: BIOL (Biological study)  
 (liposomes contg., prepn. and glutathione delivery to liver by)  
 IT 9000-97-9  
 RL: BIOL (Biological study)  
 (palmitoyl glutathione liposomes effect on)  
 IT 14464-31-4P, N-Hydroxysuccinimide palmitate  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. and reaction of, with amino acids or glutathione)

IT 27025-41-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and reaction of, with palmitic acid ester)

IT 110995-59-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and redn. of)